

Waters TORQUE WATCH® GAUGES

PRICE LIST

BI-DIRECTIONAL MODELS

(Flatted Body and Memory Needle)

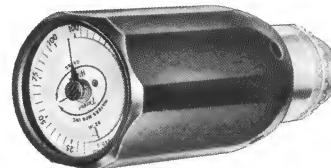
STANDARD BI-DIRECTIONAL

MODEL	RANGE	UNITS	PRICES	
			STANDARD ±5%	SPECIAL ±2%
651C-1	0.05—1.2	oz-in.	\$89.50	\$109.50
651C-2	1.0—20.0	oz-in.	89.50	109.50
651C-3	2.0—40.0	oz-in.	89.50	109.50
651C-1M	2.5—80.0	gm-cm	89.50	109.50
651C-2M	50—1200	gm-cm	89.50	109.50
651C-3M	150—2800	gm-cm	89.50	109.50
651X-2	0.1—2.4	oz-in.	\$99.50	\$119.50
651X-3	0.25—5.0	oz-in.	99.50	119.50
651X-4	0.5—10.0	oz-in.	99.50	119.50
651X-2M	5.0—150.0	gm-cm	99.50	119.50
651X-3M	10.0—300.0	gm-cm	99.50	119.50
651X-4M	25.0—600.0	gm-cm	99.50	119.50

The 651 Series can be supplied with a keyed chuck at \$50.00 additional.

- Calibration Charts are available for any standard ±5% Torque Watch Gauge. Additional price — \$10.00.
- All Torque Watch Gauges sold on a ±2% full scale accuracy are priced to include Calibration Charts.
- All above standard ±5% Torque Watch Gauges include a "Certification of Accuracy."
- All Torque Watch Gauges individually packed in velvet-lined deluxe leatherette-covered steel case.
- Chucks are not interchangeable.

HIGH RANGE BI-DIRECTIONAL



PRICES

MODEL	RANGE	UNITS	STANDARD ±5%	SPECIAL ±2%
940-1	30—200	oz-in.	\$129.50	\$154.50
940-2	15—100	oz-in.	119.50	144.50
940-1M	2.0—14.0	kg-cm	129.50	154.50
940-2M	1.0—7.0	kg-cm	119.50	144.50

STANDARD ±5% UNI-DIRECTIONAL MODELS

(Flatted Body and No Memory Needle)

CLOCKWISE

MODEL	RANGE	UNITS	PRICE
6000B-1	0.01—1.2	oz-in.	\$69.50
6000B-2	1.0—20.0	oz-in.	69.50
6000B-1M	2.5—80.0	gm-cm	69.50
6000B-2M	50—1200	gm-cm	69.50

COUNTER-CLOCKWISE

MODEL	RANGE	UNITS	PRICE
6000B-3	0.01—1.2	oz-in.	\$69.50
6000B-4	1.0—20.0	oz-in.	69.50
6000B-3M	2.5—80.0	gm-cm	69.50
6000B-4M	50—1200	gm-cm	69.50

- Any standard one-way ±5% gauge may be calibrated to ±1% accuracy at a single point only. Price \$10.00 per gauge.
- Calibration Chart available \$10.00 additional.

LOW RANGE BI-DIRECTIONAL MODELS

MODEL	RANGE	UNITS	PRICE
366-0	0.06—0.6	oz-in.	\$137.00
366-1	0.03—0.3	oz-in.	137.00
366-2	0.01—0.10	oz-in.	137.00
366-3	0.003—0.03	oz-in.	137.00

MODEL	RANGE	UNITS	PRICE
366-0M	6.0—42	gm-cm	\$137.00
366-1M	3—21	gm-cm	137.00
366-2M	1.0—7.5	gm-cm	137.00
366-3M	0.2—2.0	gm-cm	137.00

- Accuracy: Models 366-0, 366-0M, 366-1, 366-1M, ±5% of full scale. Other models ±10% of full scale.
- Calibration chart not available with this Series.

DYNAMIC TORQUE WATCH® GAUGE

DYNAMIC TORQUE WATCH GAUGE (TRANSDUCER)

MODEL	RANGE	UNITS	PRICE
324-50	5—50	oz-in.	\$399.50
324-100	10—100	oz-in.	399.50
324-200	20—200	oz-in.	399.50
324-500	50—500	oz-in.	399.50
324-4M	0.4—3.6	kg-cm	399.50
324-8M	0.7—7.2	kg-cm	399.50
324-15M	1.4—14.4	kg-cm	399.50
324-40M	4—36	kg-cm	399.50

LOAD/SPEED INDICATOR-POWER SUPPLIES

Model 367 \$374.50

Model 367M 374.50

Scales cover all ranges of Series 324 transducers.

Model 367M available to cover metric values.

LOAD INDICATOR-POWER SUPPLY

Model 368 \$114.50

Model 368M 114.50

Identical with Model 367 except omits Speed Indicator.

TORQUE CALIBRATOR

Model 6500-T2 \$325.00

MANROSS HAIR SPRING TESTER

Model 601A \$250.00

Model 601B \$250.00



WATERS
MANUFACTURING INC.
WAYLAND, MASSACHUSETTS

- Prices FOB Wayland, Mass., Terms: Net 30 days.
- Orders subject to credit approval.
- Prices are subject to change without notice.

Tel.: 617 358-2777 Cable: TORQUE

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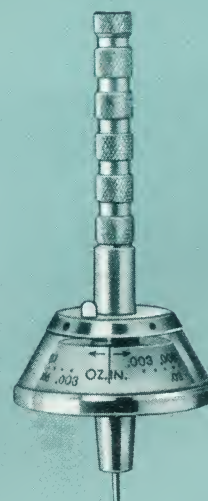
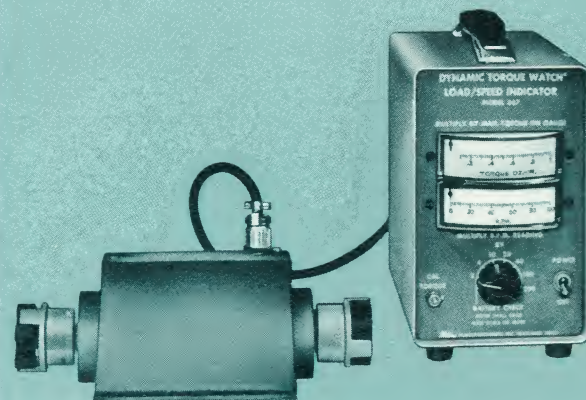
WATERS TORQUE MEASURING PRODUCTS



WATERS
MANUFACTURING INC.
WAYLAND, MASSACHUSETTS

TEL: 617 358-2777 / CABLE: TORQUE

WORLD'S FOREMOST PRODUCER OF SENSITIVE TORQUE MEASURING INSTRUMENTS



INTRODUCTION

Fifteen years ago the measurement of torque was confined to the field of heavy machinery, but with the development of newer scientific technology it was inevitable that more importance would become attached to precise determination of extremely LOW torque values — less than one foot pound.

WATERS MANUFACTURING, INC. through its engineering and manufacturing activities became aware of the requirements for torque measurements in 1952 and introduced to the market a single model of its now famous Torque Watch® Gauge — a uni-directional instrument covering a range of 1 to 20 ounce inches at an accuracy of 10%. From this small beginning the WATERS line of Torque Watch Gauge Products has been expanded into a broad line of instruments covering the range from 0.003 ounce inches to 500 ounce inches in 40 separate models and offering calibration in either English or Metric units to satisfy an international market.

Continued development has permitted improvements in accuracy, and has expanded WATERS' ability now to cover the field of Dynamic Torque measurements. No small part of the expansion of the development has been in fundamental developments of materials and manufacturing processes. As an example, it has been found necessary to control the basic formulation of spring materials at the raw material stage and to develop new techniques in dimensional control, heat treating and winding in order to manufacture a satisfactory Torque Watch Gauge.

Industry has come to look upon WATERS as the foremost designer and manufacturer of Precision Torque Measuring and Calibrating Equipment. As torque measurement requirements increase, WATERS will continue to have available the correct instrumentation for precise torque measurements.

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- WATERS TORQUE WATCH® GAUGES ARE SOLD DIRECT FROM FACTORY TO USER
- EXPORT SALES ARE HANDLED BY SELECTED DISTRIBUTORS THROUGHOUT THE WORLD

HIGH RANGE TORQUE WATCH® GAUGES SERIES 940



WATERS Series 940 High Range Torque Watch® Gauges, available in four models, are precision instruments that permit instant, accurate, direct measurement of high torque values — up to 200 ounce-inches. The gauges are bi-directional and are supplied with a $\frac{3}{8}$ " keyed chuck, a $\frac{3}{8}$ " square socket drive and extension arms for holding a steady torque.

MODELS

High Range Torque Watch Gauges are available in the following models:

Model 940-1.....	30.0–200 oz-in.
Model 940-2.....	15.0–100 oz-in.
Model 940-1M.....	2.0–14.0 kg-cm
Model 940-2M.....	1.0–7.0 kg-cm

SPECIFICATIONS

Size.....	2" across flats. 6" long.
Weight.....	24 ounces.
Chuck.....	$\frac{3}{8}$ " capacity, keyed.
Socket drive.....	$\frac{3}{8}$ " square.
Dials.....	Bi-directional, 165 degree scales.
Accuracy.....	Standard $\pm 5\%$ of full scale. Special $\pm 2\%$ of full scale. (see note below)
Finish.....	Black anodized aluminum.

NOTE:

Special 2% units are priced to include calibration charts. These charts are also supplied with standard 5% accuracy gauges at extra cost. Any gauge can be calibrated to $\pm 1\%$ AT A SINGLE POINT for an added charge. All Torque Watch Gauges include a "Certification of Accuracy."

LOW RANGE TORQUE WATCH® GAUGES SERIES 366



WATERS Series 366 Low Range Torque Watch® Gauges are compact instruments ($3\frac{3}{4}$ " long) designed for accurate measurement of ultra-low torque values from 0.003 to 0.6 ounce-inches. The hand-held gauge is bi-directional and consists of a calibrated helical spring connected between the handle and the chuck. Readings of torque appear on a beveled scale above the chuck.

The required accuracy and sensitivity are achieved by making all moving parts small for low inertia and friction. The stainless steel shaft is pivoted in jewel bearings. A $\frac{1}{16}$ inch (.062") square extension of the shaft and 3 chucks (adapters) permit coupling to any shaft for torque measurement.

The beveled scale is protected by a 360 degree clear plexiglass window. Torque values are read directly from the scale.

RANGES

Low Range Torque Watch Gauges are available in the following ranges:

Model 366-0.....	0.06–0.6 oz-in.
Model 366-1.....	0.03–0.3 oz-in.
Model 366-2.....	0.01–0.10 oz-in.
Model 366-3.....	0.003–0.03 oz-in.
Model 366-0M.....	6.0–42 gm-cm
Model 366-1M.....	3–21 gm-cm
Model 366-2M.....	1–7.5 gm-cm
Model 366-3M.....	0.2–2.0 gm-cm

SPECIFICATIONS

Size.....	$3\frac{3}{4}$ " overall length. 1.567 outside diameter.
Weight.....	1 ounce.
Chucks (Adapters)...	3 supplied (to be drilled by user).
Dial.....	Bi-directional.
Accuracy.....	Models 366-0, 366-0M, 366-1, 366-1M, $\pm 5\%$ of full scale. Other models $\pm 10\%$ of full scale.
Finish.....	Polished Stainless Steel.
Packaging.....	Permanent Jewel-case Box.

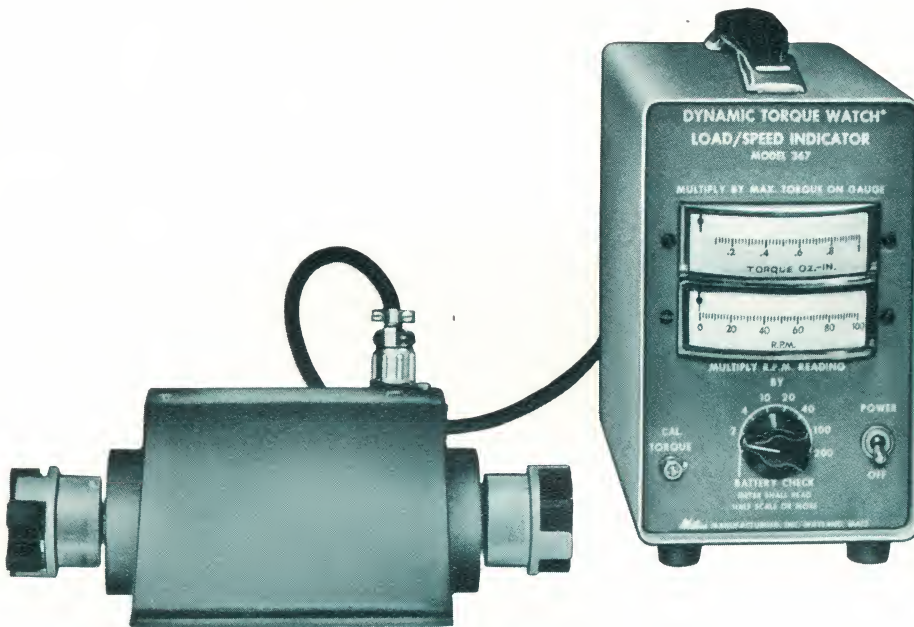
DYNAMIC TORQUE WATCH® GAUGE

The WATERS Dynamic Torque Watch® Gauge (DTWG) offers a fast, easy to use, accurate instrument for determining the torque-speed characteristics of rotating devices. It consists of a Dynamic Torque Watch Gauge transducer electrically connected to a readout/power supply unit, and mechanically in series (in-line) between motor and load. The DTWG provides continuous torque and speed measurements on the meters in the Load/Speed Indicator unit.

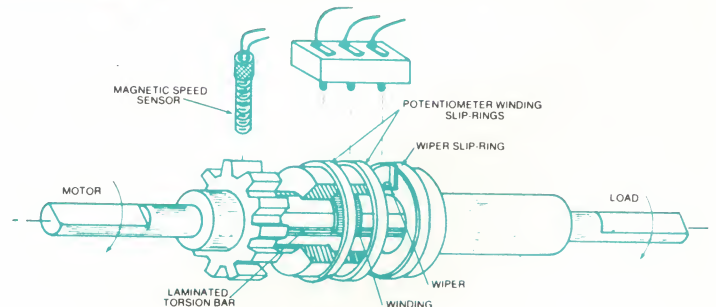
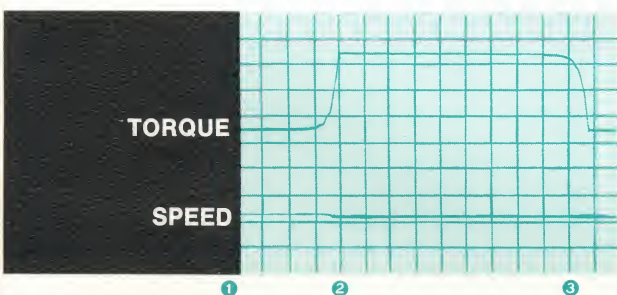
OPERATING PRINCIPLE

The Dynamic Torque Watch Gauge system consists of a laminated torsion bar and a potentiometer mounted in a cast housing between two in-line shafts. Exciting voltage for the transducer is furnished from an internal power supply contained in the Load/Speed Indicator unit.

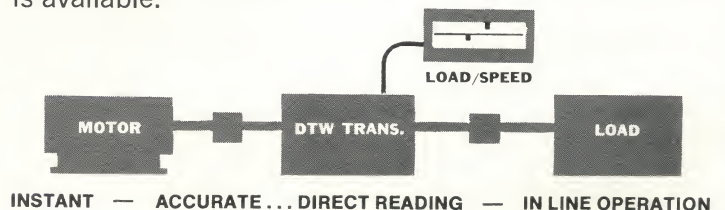
The system measures torque by means of a laminated torsion bar to which is attached a wirewound potentiometer that translates angle of deflection into an electrical output. A wiper and slip rings permit electrical pick-off while rotating. A magnetic pick-off provides the output for measuring rotational speed.



- 1-MOTOR RUNNING-NO LOAD
- 2-MOTOR RUNNING-FULL LOAD APPLIED
- 3-MOTOR RUNNING-LOAD REMOVED



Flexible couplings at each end of the torque transducer permit rapid connection to any rotating shaft up to $\frac{7}{8}$ inch diameter. The Load/Speed Indicator/Power Supply contains, in addition to the two direct reading torque and speed meters, two recorder output jacks for displaying torque and speed simultaneously on a multi-channel oscillograph. Where torque values alone are required, a separate Load Indicator/Power Supply unit is available.



GENERAL SPECIFICATIONS

DYNAMIC TORQUE WATCH® GAUGE (TRANSDUCER) SERIES 324

TORQUE

Torque Range.....	Model 324-50.....	5-50 oz-in.
(CW and CCW, full scale)	Model 324-100.....	10-100 oz-in.
	Model 324-200.....	20-200 oz-in.
	Model 324-500.....	50-500 oz-in.
	Model 324-4M.....	0.4-3.6 kg-cm
	Model 324-8M.....	0.7-7.2 kg-cm
	Model 324-15M.....	1.4-14.4 kg-cm
	Model 324-40M.....	4-36 kg-cm
Minimum Torque Indication.....		10% each full scale value
Torque Output.....		0.0045 volts/volt/oz-in.
Excitation Voltage.....		24 volts, dc max.
Output Impedance.....		0-250 ohms.
Overtorque Protection.....		10 times full scale value.

SPEED

Speed Range.....		10,000 RPM maximum.
Speed (tachometer) Output.....		0.6 volts, RMS/1000 RPM.
Tachometer Output Impedance.....		200 ohms, nominal.

MECHANICAL

Rotation.....		Bi-directional.
Input/Output Shaft.....		0.375" diam x 0.937" length.
Output Connector.....		Amphenol #126-218.
Size.....		8½" long x 4¾" wide x 3½" high.
Weight.....		3½ pounds.
Finish.....		Grey enamel — over aluminum casting.
Life.....		100 hours, minimum at 5,000 RPM.

LOAD/SPEED INDICATOR — POWER SUPPLIES MODEL 367

TORQUE INDICATOR

Scales.....		5-50, 10-100, 20-200, 50-500 oz-in.
		0.4-3.6, 0.7-7.2, 1.4-14.4, 4-36 kg-cm
Recorder Output.....		approximately 3.6 volts at any full scale torque value.

SPEED (tachometer) INDICATOR

Scales.....		0-200, 0-400, 0-1000, 0-2000, 0-4000, 0-10,000, 0-20,000 RPM.
Recorder Output.....		approximately 1 volt, dc at any full scale RPM value at 50,000 ohms, nominal.

POWER SUPPLY (regulated)

Batteries.....		3.6 volts, nominal.
		1 Eveready 520.
		1 Waters #ELA3901-1 Reference Cell.
Battery Life.....		500 hours, minimum on main battery. Reference Cell — replaceable annually.
Size.....		4½" wide x 7¾" high x 10" deep.
Weight.....		11 pounds.

LOAD INDICATOR — POWER SUPPLY MODEL 368

The Model 368 is identical with the Model 367 Load/Speed Indicator except that it omits the Speed (Tachometer) Indicator.

SYSTEM ACCURACY

The overall system accuracies are:

Torque (any range).....		±5% full scale value
Speed (any range).....		±2% full scale value
Repeatability:		
Torque.....		±3% full scale value
Speed.....		±2% full scale value

TYPICAL APPLICATIONS

MOTOR TESTING

The unit is ideally suited for deriving and recording torque/speed curves. Data obtained also allows a study of starting torque characteristics.

PRODUCTION PROCESSES

Because of its ability to present data at a remote location the DTWG system can be used as a monitoring instrument. Where power and speed indication of automatic or semi-automatic processes is a consideration, the system is a useful tool.

MOTOR DRIVEN DEVICES

Ideal for determination of power requirements and performance measurements of driven devices such as volumetric efficiency studies of water pumps. By monitoring torque, speed, and flow measurements, a complete analysis of pump efficiency and power requirements at varying flow rates can be derived.

PRODUCTION LINE TESTING

For testing products utilizing hand actuated screw devices where the operating force is critical, the gauge presents a unique solution. A test station can be set up where the device can be instantly checked by inserting its driven end in a flexible rubber chuck on the gauge. Torque limits can be marked on the meter face.

DYNAMIC TORQUE WATCH® GAUGE (TRANSDUCER) and POWER SUPPLIES WARRANTY

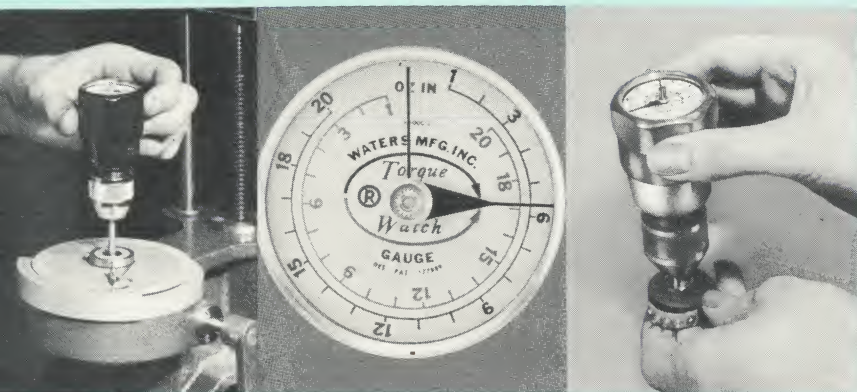
The liability of the manufacturer is limited to repairing or replacing, at its option, any Load/Speed Indicator-Power Supply, Load Indicator-Power Supply, or Dynamic Torque Watch Gauge (Transducer) that is returned to the manufacturer's plant, transportation charges prepaid, within a period of ninety days from date of original shipment and which, in the opinion of the manufacturer, is found to be defective. The warranted service life of the Dynamic Torque Watch Gauge (Transducer) itself is ninety days or 100 hours of operation, whichever shall occur first.

In order to validate this warranty, the customer is required to fill out and return to the manufacturer the warranty card supplied with each instrument.

The manufacturer maintains an adequate service facility to handle normal repairs and recalibration of Dynamic Torque Watch Gauges (Transducers), Load/Speed Indicator-Power Supply and Load Indicator-Power Supply. Factory repair and recalibration service, subsequent to the expiration of the warranty period, is available at reasonable charges on Gauges (Transducers) and Load/Speed Indicators that have not been damaged or abused through negligence and/or altered or repaired outside of the manufacturer's plant.

WATERS TORQUE WATCH® GAUGES

SERIES 651 (bi-directional), SERIES 6000 (uni-directional)



SERIES 651



SERIES 6000

Waters Torque Watch Gauges are available in 12 bi-directional and 8 uni-directional models. The Series 651 (up to 40 oz-in.) and Series 6000 (up to 20 oz-in.) are generally referred to as static range. The suffix "M" after a model number indicates metric scale.

ONE HAND OPERATION — Torque measurement with a Waters Torque Watch Gauge is a simple procedure requiring no special setup or tools. The gauge is attached to the shaft and rotated by hand to give direct readings on the clear, easy-to-read dial.

The Torque Watch Gauge is a useful production tool as well as a critical inspection instrument. The hexagonal body is easy to hold and provides natural mating surfaces for any tools or holders that may be applied.

DIAL SCALES — Series 651 models have 300° dial scales that are color coded to show direction on the bi-directional units. A Memory Needle on the bi-directional models "remembers" the highest torque applied, permitting reliable measurements to be made even under adverse conditions. This needle may be used as a limit indicator in quality control procedures, or it may be rotated out of the way when not needed.

SERIES 651

Bi-directional, Flatted Body — Memory Needle

Model 651C-1.....	0.05-1.2 oz-in.
Model 651C-2.....	1.0-20.0 oz-in.
Model 651C-3.....	2.0-40.0 oz-in.
Model 651C-1M.....	2.5-80.0 gm-cm
Model 651C-2M.....	50.0-1200 gm-cm
Model 651C-3M.....	150-2800 gm-cm

Special Bi-directional, Flatted Body — Memory Needle

Model 651X-2.....	0.1-2.4 oz-in.
Model 651X-3.....	0.25-5.0 oz-in.
Model 651X-4.....	0.5-10.0 oz-in.
Model 651X-2M.....	5.0-150 gm-cm
Model 651X-3M.....	10.0-300 gm-cm
Model 651X-4M.....	25.0-600 gm-cm

SPECIFICATIONS

Size.....1 5/8" across flats, 3 3/16" long.	Dials.....Bi-directional, 300° scales, color-coded for direction.
Weight.....7 ounces (11 ounces with keyed chuck).	Accuracy...Standard ±5% of full scale.
Chuck.....1/4" capacity (1/4" capacity keyed chuck available at additional cost for models over 10 oz-in.).	Special ±2% of full scale (See note below.)
	Finish.....Anodized aluminum.

SERIES 6000

Uni-directional, Flatted Body — No Memory Needle

CLOCKWISE	COUNTERCLOCKWISE	RANGE
Model 6000B-1.....	Model 6000B-3.....	0.01-1.2 oz-in.
Model 6000B-2.....	Model 6000B-4.....	1.0-20.0 oz-in.
Model 6000B-1M.....	Model 6000B-3M.....	2.5-80.0 gm-cm
Model 6000B-2M.....	Model 6000B-4M.....	50.0-1200 gm-cm

SPECIFICATIONS

Size.....1 5/8" diameter, 3 3/16" long.
Weight.....7 ounces (11 ounces with keyed chuck).
Chuck.....1/4" capacity (1/4" capacity keyed chuck available at additional cost for models over 10 oz-in.).
Dials.....Unidirectional, 300° scales.
Accuracy.....Standard ±5% of full scale.
Special ±2% of full scale (See note below.)
Finish.....Anodized aluminum.

NOTES:

- Special 2% units are priced to include calibration charts. These charts are also supplied with standard 5% accuracy gauges at extra cost. Any standard one-way 5% gauge can be calibrated to ±1% AT A SINGLE POINT for an added charge of \$10 per gauge. All Torque Watch Gauges include a "Certification of Accuracy."
- Calibration Charts are available for any standard 5% Torque Watch Gauge: Additional price — \$10.00.
- All Torque Watch Gauges sold on a ±2% full scale accuracy are priced to include Calibration Charts.
- All standard ±5% Torque Watch Gauges include a "Certification of Accuracy."
- All Torque Watch Gauges packed singly in velvet-lined deluxe leatherette-covered steel case.
- Keyed chuck is not interchangeable with standard chuck.

WATERS TORQUE CALIBRATOR MODEL 6500-T2



A PRIMARY STANDARD FOR CALIBRATING TORQUE DEVICES

FEATURES

- Accuracy $\pm 0.2\%$ of indicated reading
- Used to calibrate Waters Torque Watch Gauges, torque wrenches, torque screwdrivers, and other torque measuring equipment.
- Used to measure torque where other calibrated measuring devices are impractical
- Checks breakaway and static torque accurately . . . in seconds
- Dynamic damping for instantaneous reading
- Equipped with accurately calibrated weights — uses weight-vector principle
- Mechanically designed for long, trouble-free service — only one moving part
- Can be readily adapted to use special fixtures
- Portable — can be carried easily (weighs only 24 lbs.)
- Built-in Self Calibration Feature

RANGES

Three scales calibrated in both ounce inches and gram centimeters provide a measuring range of 0.5 to 40.0 ounce inches (20.0 to 2800 gram centimeters) at an accuracy of $\pm 0.2\%$ of indicated reading. Widely separated calibration points on the dial make it easy to read all six bi-directional scales. Three certified weights are supplied for the three ranges:

HIGH — 6 to 40 oz-in. (600 to 3000 gram-centimeters)

MEDIUM — 2 to 10 oz-in. (150 to 700 gram-centimeters)

LOW — 0.5 to 2.5 oz-in. (20 to 170 gram-centimeters)

Higher ranges are available upon application at extra charge.

SPECIAL FIXTURES

Four 8/32 tapped holes are provided on the front panel to mount special fixtures, such as magnetic clutches or special purpose jigs.

SPECIFICATIONS

SIZE: 14 $\frac{1}{4}$ " high x 15" wide x 8" across base (16" across handles)

WEIGHT: 24 lbs.

FINISH: Grey Corotex

MAINTENANCE

The Waters Torque Calibrator uses precision ball bearings which are permanently lubricated and sealed. No maintenance is required in normal use for the Torque Calibrator or the bearings.

A polyethylene dust cover is supplied with each instrument to protect it when not in use.

WATERS MANROSS HAIR SPRING TESTER MODELS 601A, 601B



WATERS Model 601A/B Manross Hair Spring Testers are the standard instruments in the hairspring and instrument industry for performing meaningful, quantitative tests and measurements on small precise instrument type hair springs.

The WATERS Manross Hair Spring Testers employ a calibrated master hair spring against which the unknown spring is compared at a known deflection and then read out in Manross Numbers. These Numbers are immediately converted to Millimeter-Gram Torque Values by means of a furnished conversion chart. The Ranges covered are:

Model 601A . . . 0.010 to 500 Millimeter-Grams

Model 601B . . . 7.00 to 10,500 Millimeter-Grams

MANROSS HAIR SPRING TESTER WARRANTY MODELS 601A/601B

The WATERS Manross Hair Spring Tester is designed and manufactured in accordance with the highest standards of good engineering practice and is warranted by the manufacturer to be free of original defects of design, material and workmanship. The liability of the manufacturer, under this warranty, is limited to repairing or replacing, at its option, any WATERS Manross Hair Spring Tester, or part thereof, that is returned to the manufacturer's plant, transportation charges prepaid, within a period of ninety days from the date of original shipment. This warranty is not intended to cover testers that have been damaged by improper use or abuse. Damaged Master Springs will be replaced only at the customer's expense under the Flat Rate Service Charge Policy below.

The manufacturer maintains an adequate service facility to handle normal repairs and recalibration of WATERS Manross Hair Spring Testers. Routine repair and recalibration service, subsequent to the expiration of the warranty period, is handled on a flat rate basis of \$25.00 per unit, plus transportation, on Waters Manross Hair Spring Testers that have not been damaged or abused through negligence and/or altered or repaired outside of the manufacturer's plant.

WARRANTY FOR SERIES 651, 6000, 366, 940 AND MODEL 6500-T2

Each Torque Watch Gauge and Torque Calibrator is designed, manufactured and scientifically tested in accordance with the highest standards of good engineering practice and is warranted by the manufacturer to be free of original defects of design, material and workmanship. It is further warranted that at the time of manufacture and test each Torque Watch Gauge and Torque Calibrator was within a specified accuracy tolerance. The liability of the manufacturer is limited to repairing or replacing, at its option, any Torque Watch Gauge or Torque Calibrator, or part thereof, that is returned to the manufacturer's plant, transportation charges prepaid, within a period of ninety days from the date of original shipment.

The manufacturer maintains an adequate service facility to handle normal repairs and recalibration of Torque Watch Gauges and Torque Calibrators. Routine repair and recalibration service, subsequent to the expiration of the warranty period, is handled on a flat rate basis of \$25.00 per Gauge and \$45.00 per Calibrator on Gauges and Calibrators that have not been damaged or abused through negligence and/or altered or repaired outside of the manufacturer's plant.



WATERS
MANUFACTURING INC.
WAYLAND, MASSACHUSETTS

TEL: 617 358-2777 / CABLE: TORQUE